

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P308011

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CP250-W2A-U-5000K**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P308011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-39-UNV-L82765-S-CP250-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.250" POLYCARB SHEET
Light Source: (168) 5000K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3590.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

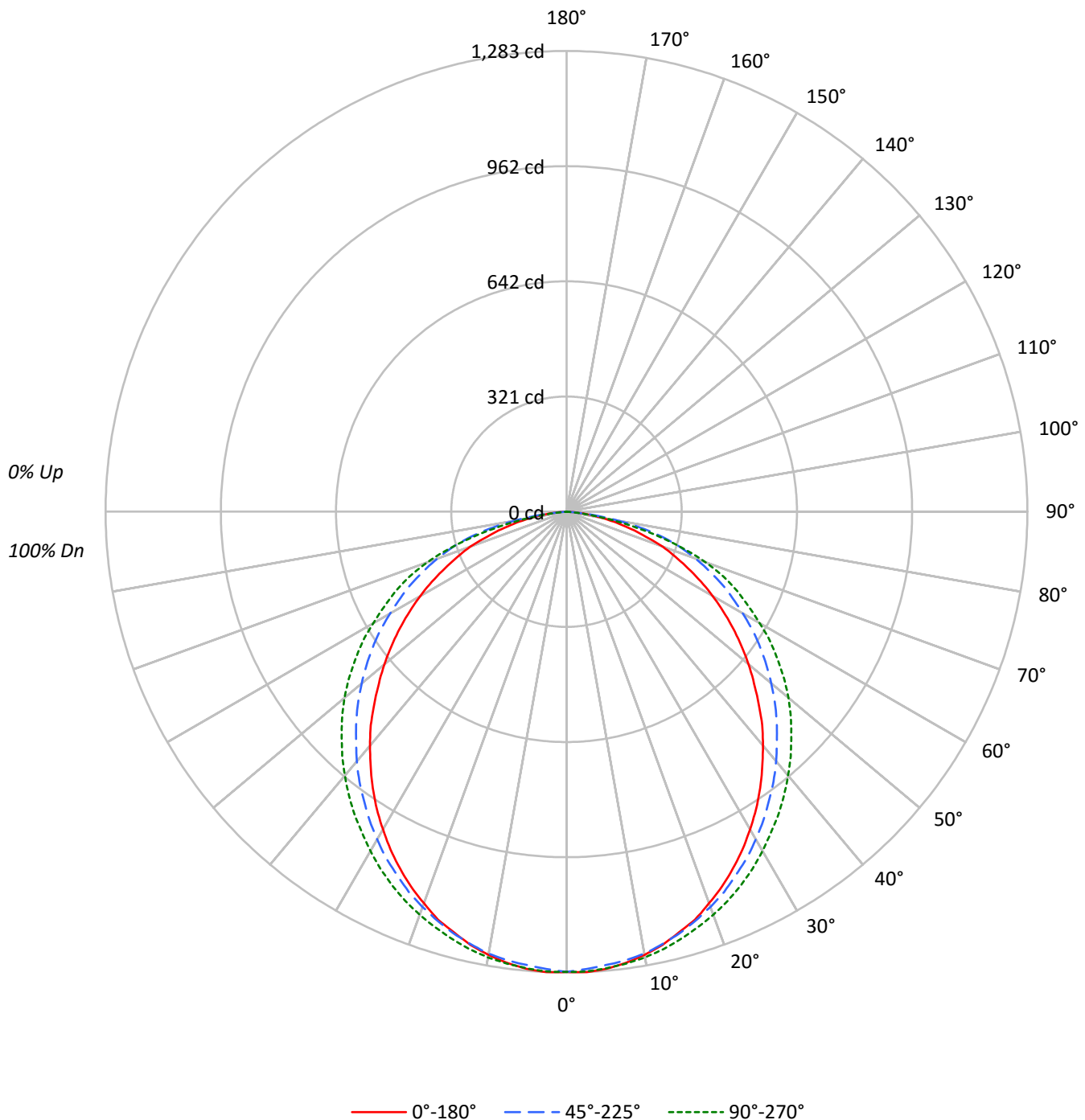
Input Watts (W): 34.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3449	3449	3449
5°	3452	3423	3447
10°	3424	3414	3443
15°	3377	3387	3431
20°	3323	3354	3420
25°	3256	3314	3409
30°	3175	3274	3390
35°	3087	3228	3380
40°	2989	3189	3370
45°	2879	3150	3366
50°	2772	3115	3376
55°	2655	3090	3365
60°	2529	3046	3343
65°	2380	3037	3344
70°	2241	3011	3249
75°	1943	2942	2776
80°	1573	2373	1849
85°	1044	824	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.4
10°-20°	344.4	9.6
20°-30°	516.6	14.4
30°-40°	616.2	17.2
40°-50°	637.0	17.7
50°-60°	581.6	16.2
60°-70°	457.7	12.7
70°-80°	266.4	7.4
80°-90°	49.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	981.9	27.4
0°-40°	1598.1	44.5
0°-60°	2816.8	78.5
0°-90°	3590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1278	1274	1267	1278	1276	121
15°	1212	1214	1216	1232	1232	342
25°	1096	1102	1116	1143	1148	505
35°	940	952	982	1020	1029	587
45°	756	781	828	874	885	584
55°	566	596	659	707	717	506
65°	374	413	477	514	525	371
75°	187	231	283	278	267	199
85°	34	48	27	21	18	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1283.4	1279.8	1274.5	1283.4	1281.6
5°	1278.0	1274.5	1267.3	1278.0	1276.2
7.5°	1267.3	1263.8	1260.2	1270.9	1269.1
10°	1253.1	1251.3	1249.5	1262.0	1260.2
12.5°	1235.3	1235.3	1233.5	1247.8	1247.8
15°	1212.2	1213.9	1215.7	1231.7	1231.7
17.5°	1190.8	1189.0	1194.4	1212.2	1213.9
20°	1160.5	1164.1	1171.2	1192.6	1194.4
22.5°	1130.3	1133.8	1146.3	1167.7	1173.0
25°	1096.5	1101.8	1116.0	1142.7	1148.1
27.5°	1060.9	1068.0	1087.6	1116.0	1121.4
30°	1021.7	1032.4	1053.7	1085.8	1091.1
32.5°	982.5	993.2	1019.9	1052.0	1059.1
35°	939.8	952.3	982.5	1019.9	1028.8
37.5°	895.3	911.3	946.9	984.3	995.0
40°	850.8	868.6	907.8	946.9	959.4
42.5°	806.3	824.1	866.8	911.3	923.8
45°	756.5	781.4	827.7	874.0	884.6
47.5°	708.4	735.1	786.7	833.0	847.3
50°	662.1	688.8	744.0	792.1	806.3
52.5°	614.1	642.6	701.3	751.1	763.6
55°	566.0	596.3	658.6	706.6	717.3
57.5°	518.0	550.0	614.1	660.4	672.8
60°	469.9	503.7	566.0	612.3	621.2
62.5°	421.9	457.4	521.5	562.5	571.4
65°	373.8	413.0	477.0	514.4	525.1
67.5°	327.5	366.7	429.0	464.6	473.5
70°	284.8	320.4	382.7	409.4	413.0
72.5°	231.4	275.9	336.4	350.7	341.8
75°	186.9	231.4	283.0	277.7	267.0
77.5°	142.4	186.9	220.7	202.9	188.7
80°	101.5	146.0	153.1	126.4	119.3
82.5°	65.9	101.5	85.4	65.9	53.4
85°	33.8	48.1	26.7	21.4	17.8
87.5°	10.7	7.1	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)